## We claim:

1. A phosphor screen that comprises an inorganic phosphor capable of absorbing X-rays and emitting electromagnetic radiation having a wavelength greater than 300 nm, said inorganic phosphor being coated in admixture with a polymeric binder in a phosphor layer onto a flexible support, said flexible support comprising a reflective substrate comprising

at least one layer comprising a continuous poly(lactic acid) first phase and a second phase dispersed within said continuous poly(lactic acid) first phase, said second phase comprised of microvoids containing barium sulfate particles.

- 2. The screen of claim 1 wherein said poly(lactic acid) first phase is a biaxially oriented poly(lactic acid).
- 3. The screen of claim 1 wherein the ratio of the reflective index of said poly(lactic acid) first phase to said second phase is from about 1.4:1 to about 1.6:1.
- 4. The screen of claim 1 wherein said support is capable of reflecting at least 90% of incident radiation having a wavelength of from about 300 to about 700 nm.
- 5. The screen of claim 1 wherein said microvoids occupy from about 35 to about 60% (by volume) of said reflective substrate.
- 6. The screen of claim 1 wherein said reflective support has a dry thickness of from about 75 to about 400 µm.
- 7. The screen of claim 1 wherein said poly(lactic acid) first phase is composed of at least 75% by weight of poly(L-lactic acid).

- 8. The screen of claim 1 wherein the particles of barium sulfate have an average particle size of from about 0.6 to about 2  $\mu$ m and comprise from about 23 to about 65 weight % of total substrate weight.
- 9. The screen of claim 1 wherein said phosphor is sensitive to electromagnetic radiation having a wavelength of from about 350 to about 450 nm.
- 10. The screen of claim 1 further comprising a transparent protective layer disposed over said phosphor layer.
- 11. The screen of claim 1 wherein said support further comprises a stretch microvoided polymer layer that is free of barium sulfate and arranged adjacent said reflective substrate opposite said phosphor layer.
- 12. The screen of claim 11 wherein said stretch microvoided polymer layer comprises microvoids in amount of from about 35 to about 60% (by volume).
- 13. The screen of claim 11 wherein said stretch microvoided polymer layer has a dry thickness of from about 30 to about 120  $\mu m$ .
- 14. The screen of claim 11 wherein said stretch microvoided polymer layer is arranged directly adjacent said reflective substrate.
  - 15. A radiographic imaging assembly comprising:
- A) a photosensitive silver halide-containing film comprising a support having first and second major surfaces,

said photosensitive silver halide-containing film having disposed on at least said first major support surface, one or more photosensitive emulsion layers, and B) a phosphor screen that comprises an inorganic phosphor capable of absorbing X-rays and emitting electromagnetic radiation having a wavelength greater than 300 nm, said inorganic phosphor being coated in admixture with a polymeric binder in a phosphor layer onto a flexible support,

said flexible support comprising a reflective substrate comprising at least one layer comprising a continuous poly(lactic acid) first phase and a second phase dispersed within said continuous poly(lactic acid) first phase, said second phase comprised of microvoids containing barium sulfate particles.

- 16. The imaging assembly of claim 15 wherein said photosensitive silver halide-containing film is a dual-coated radiographic photographic film.
- 17. The imaging assembly of claim 15 wherein said photosensitive silver halide-containing film is a photosensitive thermally-developable film.
- 18. The imaging assembly of claim 17 wherein said photosensitive silver halide-containing film comprises a support having a photosensitive thermally-developable imaging layer on both sides of said support.
  - 19. A method of providing a radiographic image comprising:
- A) directing imaging X-radiation through a phosphor screen that comprises an inorganic phosphor capable of absorbing X-rays and emitting electromagnetic radiation having a wavelength greater than 300 nm, said inorganic phosphor being coated in admixture with a polymeric binder in a phosphor layer onto a flexible support,

said flexible support comprising a reflective substrate comprising at least one layer comprising a continuous poly(lactic acid) first phase and a second phase dispersed within said continuous poly(lactic acid) first phase, said second phase comprised of microvoids containing barium sulfate particles, thereby causing said electromagnetic radiation to impinge on a photosensitive

silver halide-containing film comprising a support having first and second major surfaces,

said photosensitive silver halide-containing film having disposed on at least said first major support surface, one or more photosensitive emulsion layers, to form a latent image in said film, and

- B) developing said latent image in said film.
- 20. The method of claim 19 wherein said photosensitive silver halide-containing film is a "wet" processable radiographic film and said latent image is developed using wet processing solutions.
- 21. The method of claim 19 wherein said photosensitive silver halide-containing film is a "dry" thermally-developable film and said latent image is developed using thermal energy.
- 22. A flexible film comprising at least one layer comprising a continuous poly(lactic acid) first phase and a second phase dispersed within said continuous poly(lactic acid) first phase, said second phase comprised of microvoids containing inorganic particles.
- 23. The flexible film of claim 22 wherein said microvoids comprise barium sulfate particles.
- 24. The flexible film of claim 22 wherein said microvoids occupy from about 35 to about 60% (by volume) of said reflective substrate and said inorganic particles have an average size of from about 0.6 to about 2 mμ and comprise from about 23 to about 65 weight % of total substrate weight.
- The flexible film of claim 22 having a dry thickness of from about 30 to about 120 m $\mu$ .